

UNIT 10 AREA Review Packet

TARGETS A-C

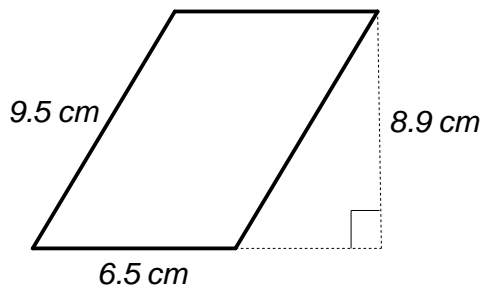
- 1) A rectangle has a height of 19 in. Its **area** is 627 in^2 . Find the base.

base = _____

- 2) A square has an area of 64 ft^2 . Find the length of one side of the square.

side = _____

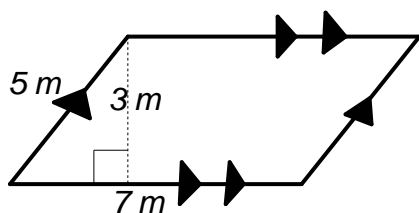
- 3) Find the **area and perimeter** of the **parallelogram** shown.



Area _____

Perimeter _____

- 4) Find the **area and the perimeter** of the **parallelogram** shown.

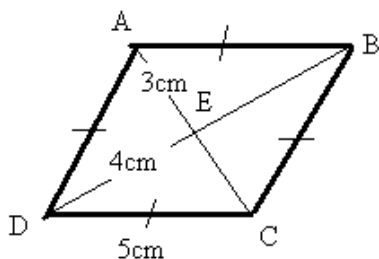


Area _____

Perimeter _____

TARGET D & E (Make sure you know the formula for Area of a Kite & Rhombus = $\frac{1}{2} d_1 d_2$)

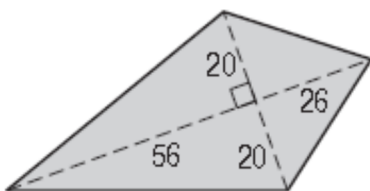
- 5) Find the **area and the perimeter** of the **rhombus** shown.



Area _____

Perimeter _____

- 6) Find the area of the given kite.



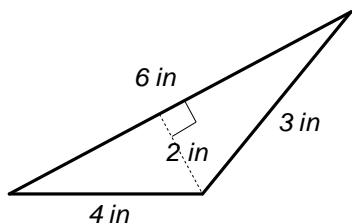
Area _____

- 7) The area of a kite is 187 yd^2 . If one diagonal is 22 yards, find the length of the other diagonal.

Diagonal _____

TARGET F (Make sure you know the area of an equilateral triangle = $\frac{s^2\sqrt{3}}{4}$)

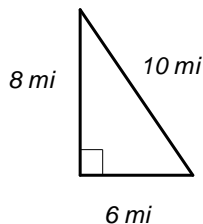
- 8). Find the area and the perimeter of the triangle shown.



Area _____

Perimeter _____

- 9) Find the area and the perimeter of the triangle shown.



Area _____

Perimeter _____

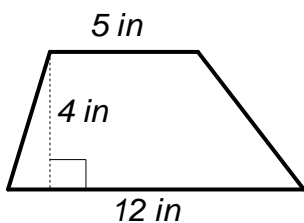
- 10) Find the area of an equilateral triangle with side 16 cm.

Perimeter _____

Area: _____

TARGET G

- 11) Find the area of the trapezoid.

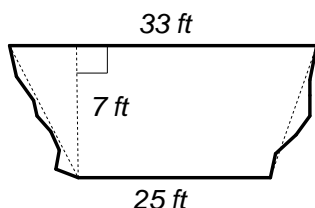


Area _____

- 12) The area of a trapezoid is 192 cm^2 . If the height is 12 cm and the shorter base is 15 cm, find the length of the longer base.

Longer base _____

- 13) To study stream flow, a civil engineer needs to find the area of a cross section of a stream. The cross section resembles a trapezoid. Estimate the area of the cross section shown here.



Area _____

TARGET H (Make sure you know the area of a regular hexagon = $6 \cdot \frac{s^2 \sqrt{3}}{4}$)

- 14) Find the area of a regular heptagon with apothem 8.31 in and side 8 in.

Perimeter _____

Area: _____

- 15) Find the area of a regular hexagon with side 12 cm.

Perimeter _____

Area: _____

TARGET I

- 16) Find the area and circumference of a circle with diameter of 18 in. Round your answer to the nearest hundredths place.

Area _____

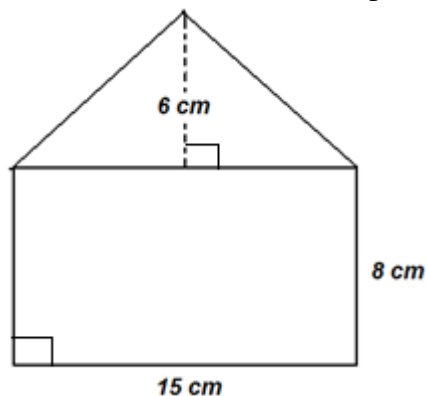
Circumference _____

- 17) The area of a circle is $196\pi \text{ cm}^2$. Find the length of the radius.

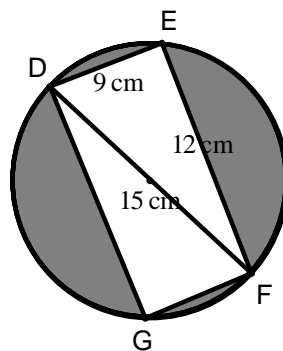
radius _____

TARGET J

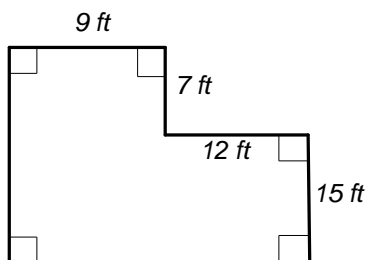
18) Find the area for the composite figure.



19) Find the shaded area (hundredths place)



20) Find the **perimeter** and the **area** of the family room sketched below. All measures are in feet.

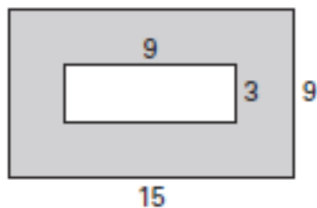


perimeter _____

area _____

For #21 & 22 find the probability that a point chosen at random lies in the shaded region.

21)



22)

